1. What attribute should you add to a **<input>** element if you want to ensure that users provide a response?

**pattern**

**maxlength**

**required**

**min**

1. Why does the code provided not create a working **<datalist>** element?

<form action="/quiz.html" method="POST">  
  <label for="choice">What's wrong with this code?</label>  
  <input id="choice" type="text" name="find-the-answer">  
  <datalist id="menu-options">  
      <option value="one"></option>  
      <option value="two"></option>  
      <option value="three"></option>  
  </datalist>  
</form>

The **<input>**‘s **type** attribute should be set to **"datalist"**.

The **<input>** doesn’t have a **list** attribute to associate itself with the **<datalist>**.

The ordering of the **<input>**‘s attributes is not correct.

There are not enough options in the **<datalist>** element to filter through.

1. What is a benefit of implementing client-side validation?

Client-side validation creates a fake server to check user-provided data.

It allows you to select what browsers can load your site.

It saves us time from having to send information to the server and wait for the server to respond.

It speeds up the browser for a better user experience.

1. What is an appropriate scenario for using an **<input>** element with the **type** set to **"radio"**?

When you want to present users with multiple options and have them choose ONLY ONE.

When you want to present users with multiple options and have them choose ANY amount they want.

When you want users to type in a combination of numbers and characters.

When you want to hone in on a specific frequency known to the server.

1. How are radio buttons different from checkboxes?

Radio buttons cannot be inserted into a form, but checkboxes can.

Checkboxes can have labels but radio buttons cannot.

You can select multiple checkboxes but only one radio button.

There is no difference, both are used interchangeably.

1. Based on the code provided, why will the information from the first **<input>** element NOT be sent to **/processing.html** when the form is submitted?

<form action="/processing.html" method="GET">  
  <input type="text" id="username">  
  <input type="submit" value="submit">   
</form>

The first **<input>** element is missing the **name** attribute which omits the **<input>**‘s information.

The **<form>** element is missing a submit button.

The first **<input>** element does not render properly.

The first **<input>** element is missing a **<label>**.

1. True or False: You can assign default text to a **<textarea>** element by adding text between the opening and closing **<textarea>** tags.

True

False

1. What is a benefit of using the **<label>** element?

Clicking on the **<label>** element will focus on the text field of the associated **<input>** element.

The **<label>** element validates the value of the **<input>** element.

Clicking on the **<label>** element clears the value of the **<input>** element.

The **<label>** element will autofill the field of the associated **<input>** element.

1. How can we render a dropdown list in a **<form>**?

Add an **<input>** element and set the **type** attribute to **"dropdown"** and nesting **<option>**s inside.

Create a **<dropdown>** element and set multiple **value**s in the opening **<dropdown>** tag.

Create a **<div>** and add multiple **<input>** elements with set **value**s.

Add a **<select>** element with **<option>** elements nested inside.

1. What is rendered on the web page as a result of the code provided?

<form action="/processing.html" method="GET">  
  <label for="mystery">What gets rendered?</label>  
  <input type="range" id="mystery" name="mystery" min="0" max="100" step="10">  
</form>

A form containing a text field which accepts any number from 0 to 100.

A text field that contains the words **"mystery"** which can be changed to either **"0"** or **"100"**.

A form containing a slider that has a maximum value of 100, a minimum of 0 and moves in steps of 10.

A form that is completely empty except for the submit button.